

Rec'd PCT/PTO 24 MAY 2005

10/507408 WA

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Alexandria, VA 22313-1450 on May 23, 2005.


Andrea WONG**Facsimile Transmission Cover Sheet**

Recipient : Mail Stop PCT
Fax : +1 (703) 305 3230

Confirmation No. : 6890

Sender : Customer No. : 031366
Attorney Name : Dexter CHIN
Firm Name : Horizon IP Pte Ltd
Telephone : + (65) 9836 9908

Subject Matter : US Patent Application Number: 10/507,408
Response to Notification of Missing Requirements dated March 21, 2005

Total Pages
(including cover sheet) : 65 pages

Attachments : a) Certificate of Transmission
b) Transmittal Form
c) Fee Transmittal
d) Response to Notification of Missing Requirements dated March 21, 2005

11/10/2005 WALVARAD 00000003 502388 10507403
Sale Ref: 00000003 DAH: 502388 10507403
01 FC:1617 130.00 DA

PTO/SB/97 (04-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the
United States Patent and Trademark Office

on May 23, 2005

Date



Signature

Andrea WON

Typed or printed name of person signing Certificate

N.A.

Registration Number, if applicable

+65 6876 3213

Telephone Number

Note: Each paper must have its own certificate of transmission, or this
certificate must identify each submitted paper.

- a) Transmittal Form
- b) Fee Transmittal
- c) Response to Notification of Missing Requirements dated March 21, 2005

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/21 (09-04)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)


Total Number of Pages in This Submission 65

Application Number	10/507,408
Filing Date	April 04, 2003
First Named Inventor	Rudi FRENZEL
Art Unit	Not Assigned Yet
Examiner Name	Not Assigned Yet
Attorney Docket Number	IFX P 2003 NAT 05 WOUS

ENCLOSURES (Check all that apply)


<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks 1. Specification 2. Preliminary Amendment		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Horizon IP Pte Ltd		
Signature			
Printed name	Dexter CHIN		
Date	May 23, 2005	Reg. No.	38,842

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Andrea WON	Date	May 23, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2008, OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2005☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 260.00

Complete if Known

Application Number	10/507,408
Filing Date	April 04, 2003
First Named Inventor	Rudi FRENZEL
Examiner Name	Not Assigned Yet
Art Unit	Not Assigned Yet
Attorney Docket No.	IFX P 2003 NAT 05 WOUS

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 50-2388 Deposit Account Name: Horizon IP Pte Ltd

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES**Fee Description**

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Fee (\$)	Small Entity Fee (\$)
50	25
200	100
360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____	_____

- 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)


Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1.492 (e) & 1.492 (f) - Defective translation

Fees Paid (\$)

260.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 38,842	Telephone +65 9836 9908
Name (Print/Type)	Dexter CHIN	Date May 23, 2005	

This collection of information is required by 37 CFR 1.138. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Appl. No.: 10/507,408
Response dated May 23, 2005
Response to Notification of Missing Requirements dated March 21, 2005

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No. : 10/507,408 Confirmation No. : 6890
LA No. : PCT/EP03/03547
Applicant : **FRENZEL** et al.
Docket No. : IFX P 2003 NAT 05 WOUS
Customer No. : 031366 Date : May 23, 2005
Title : Improved Architecture with Shared Memory

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Alexandria, VA 22313-1450 on May 23, 2005.


Andrea **WON**

Attn.: Mail Stop **PCT**
COMMISSIONER FOR PATENTS
P.O. BOX 1450
Alexandria, VA 22313-1450

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

Sir:

This is a response to the Notification of Missing Requirements Under 35 USC 371 in the United States Designated/Elected Office (DO/EO/US) dated March 21, 2005, for which a period for response of two (2) months from the date of the said Notice is set to expire May 21, 2005.

Enclosed herewith are:

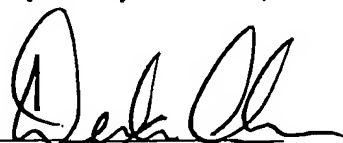
1. A copy of the said Notice;
2. Executed Declaration: Rudi **FRENZEL**, Christian **HORAK**, Markus **TERSCHLUSE**, Stefan **UHLEMANN** and Raj Kumar **JAIN**; and
3. Specification and Preliminary Amendment.

Appl. No.: 10/507,408
Response dated May 23, 2005
Response to Notification of Missing Requirements dated March 21, 2005

The Commissioner is hereby authorized to charge Deposit Account No.: 50-2388 for a surcharge of \$260.00, in accordance with 37 C.F.R. 1.492 (e) and 37 C.F.R. 1.492 (f). The commissioner is further authorized to charge this account for any other fees which may be due. Issuance of a formal Filing Receipt is respectfully solicited.

Date: May 23, 2005

Respectfully submitted,



Dexter CHEN
Attorney for Applicants
Reg. No. 38,842

Horizon IP Pte Ltd
8 Kallang Sector
East Wing 7th Floor
Singapore 349282
Tel.: (65) 9836 9908
Fax: (65) 6846 2005

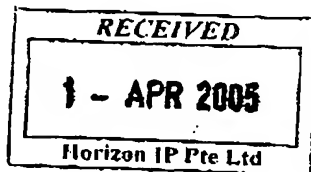


UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/507,408	Rudi Frenzel	IFX P 2003 NAT 05 WOUS

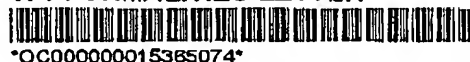
Horizon IP Pte Ltd.
166 Kallang Way
6th Floor
Singapore 349249,
SINGAPORE



INTERNATIONAL APPLICATION NO.	
PCT/EP03/03547	
LA. FILING DATE	PRIORITY DATE
04/04/2003	04/04/2002

CONFIRMATION NO. 6890

371 FORMALITIES LETTER



OC000000015365074

Date Mailed: 03/21/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 09/13/2004
- Copy of the International Search Report filed on 09/13/2004
- U.S. Basic National Fees filed on 09/13/2004
- Substitute Specification filed on 09/13/2004
- Priority Documents filed on 09/13/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Translation of the application into English. The current translation of the application into English is defective as described below. Note a processing fee will be required if submitted later than 30 months from the priority date.
 - I am unable to use the substitute specification you have submitted. The substitute specification has 27 claims and the published international application has 34 claims. You have not accounted for seven claims. In addition, you have not submitted a preliminary amendment with the substitute specification. I have used the published international application to process this application. There are several independent, multiple and improper claims outstanding. Please make the necessary corrections when you are responding to the Notice of Missing Requirements.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$0.00 for a Large Entity:

* \$130 Late oath or declaration Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

WINSTON M ALVARADO

Telephone: (703) 308-9140 EXT 206

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/507,408	PCT/EP03/03547	IFX P 2003 NAT 05 WOUS